(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 April 2005 (14.04.2005)

PCT

(10) International Publication Number WO 2005/033022 A1

- (51) International Patent Classification⁷: C02F 11/00,
 C10J 3/00, F02M 21/02, F02B 43/08, F02C 3/28, 6/18,
 F23G 5/027, 5/04, 5/46
- (21) International Application Number:

PCT/JP2004/014992

- (22) International Filing Date: 5 October 2004 (05.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-347656 6 October 2003 (06.10.2003) JP 2004-017704 26 January 2004 (26.01.2004) JP

- (71) Applicant (for all designated States except US): EBARA CORPORATION [JP/JP]; 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MIYOSHI, Norlhisa [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP). IMAIZUMI, Takashi [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP). SAWAI, Kenji [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP). IRIYAMA, Morio [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP). IRIYAMA, Morio [JP/JP];

Tokyo 1448510 (JP). TAKAKURA, Shutaro [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo 1448510 (JP).

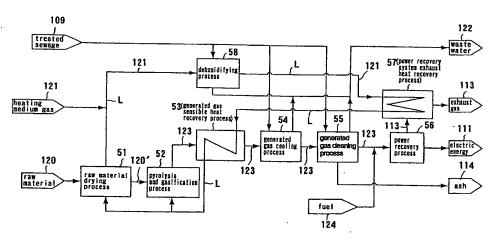
- (74) Agents: WATANABE, Isamu et al.; GOWA Nishi-Shin-juku 4F, 5-8, Nishi-Shinjuku 7-chome, Shinjuku-ku, Tokyo 1600023 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TREATING ORGANIC MATTER



(57) Abstract: An organic matter such as sewage sludge (101) is treated by gasifying the organic matter into a combustible gas and using the combustible gas as a fuel for a gas engine or a gas turbine to recover power (energy). In a method of treating the organic matter, an organic matter as a raw material is dried in a drying process (51), the dried raw material is gasified to produce a generated gas (123), and the sensible heat from the generated gas and/or a combustion gas produced by gasification is recovered by using a heating medium in a recovery process. Then, the heating medium heated in the recovery process is introduced into the drying process as a heating medium gas for drying.

WO 2005/033022 A1



 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.